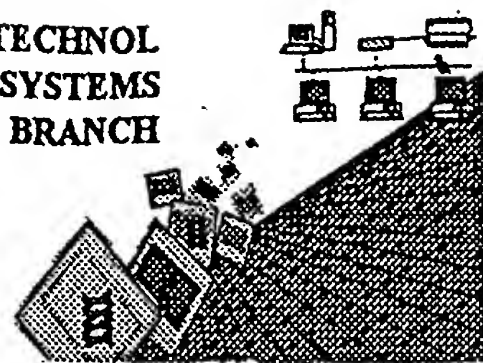


BIOTECHNOL
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101070,666
Source: PCT10
Date Processed by STIC: 3/21/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

PCT10

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/070,666

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ✓ Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



Does Not Comply
Corrected Diskette Needed

PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002 *Errors on p. 5*
TIME: 15:52:52

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF3\03212002\J070666.raw

3 <110> APPLICANT: Aventis Research & Technologies GmbH & Co KG
5 <120> TITLE OF INVENTION: Nucleic Acid Which is Obtained from Tetrahymena and which
Codes
6 delta 6-Desaturase, the Production Thereof and Use
8 <130> FILE REFERENCE: Banner & Witcoff Attorney Docket Number 005430.00002; National
Phase
W--> 9 Application of PCT/EP00/08778
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/070,666
12 <141> CURRENT FILING DATE: 2002-03-08
14 <150> PRIOR APPLICATION NUMBER: DE 19943270.8
15 <151> PRIOR FILING DATE: 1999-09-10
17 <160> NUMBER OF SEQ ID NOS: 19
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1219
23 <212> TYPE: DNA
24 <213> ORGANISM: Tetrahymena thermophila
26 <400> SEQUENCE: 1
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28 ttgttcttga aaataaaccc gaacttctca acgaatacaa atttatttac aaggatactg 120
29 aatatgactg cactgaatat gctaaatcaa ataagcatcc tggcggtctt aatttcctca 180
30 atttgtttat tgatgagaag taagatttga ctgaatatct cagaacactc cattctaagt 240
31 aggccttgaa aatttttaaaa tccttcctca agactggcgc aaaataagag gagactgaat 300
32 cttcaaagag attctcaata ttaaagaaaa agcttaagca tttattcgaa ccaaactggc 360
33 ctatcgaaat tggtttattc ttaactacct ttactttatt tgtcactgga tgtttgactc 420
34 aaaagtggta tttctctatt ccccttcttg tcttaatgca aatcatcagt ggttggattg 480
35 gtcactctat gaaccacaat cgtaacccta tattaagaaa attcgcttta gtctacgctc 540
36 ctctttgtgg tggtttctct aataaatggt ggggtaggaa gcacaatcaa catcatatgt 600
37 tcacaaacaa cattctaaag gacgaagata tctaacacga ttacaaattg tggtaattcc 660
38 ccttcttatt tttaaagtgg aaattagact ccatcttagc ttcttattat gaatttgaag 720
39 gaatcttctt tgccttgac tggttattat tattcaacta aaacttctat atcgtaattc 780
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42 gaaactacgc tttccacgac atattctctc tacttattat gggtaggtatg taatattaga 960
43 ctgaacatca ctttttccca taaattcctt tctacagatt acccaaagct cgtgtcataa 1020
44 ttgctgaaga attaaagaag tggaacctta agattcatga aggacctatt tttgaaaaat 1080
45 ctcacctttg aaaataaata aatttatattt aaatgcatat tttattagta atactaacia 1140
46 ttgtaggaaa tgtgttatgg tttgtttact tattactttt taatctgaga aaacagtctt 1200
47 aacaaaaaaa aaaaaaaaaa 1219
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51 <211> LENGTH: 352
52 <212> TYPE: PRT
53 <213> ORGANISM: Tetrahymena thermophila
55 <400> SEQUENCE: 2

56 Met Gly Val Asp Lys Thr Glu Glu Ile Val Leu Glu Asn Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002

TIME: 15:52:52

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\03212002\J070666.raw

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57      1              5              10              15
59 Glu Leu Leu Asn Glu Tyr Lys Phe Ile Tyr Lys Asp Thr Glu Tyr Asp
60              20              25              30
62 Cys Thr Glu Tyr Ala Lys Ser Asn Lys His Pro Gly Gly Leu Asn Phe
63              35              40              45
65 Leu Asn Leu Phe Ile Asp Glu Lys Gln Asp Leu Thr Glu Tyr Phe Arg
66              50              55              60
68 Thr Leu His Ser Lys Gln Ala Leu Lys Ile Leu Lys Ser Phe Pro Lys
69 65              70              75              80
71 Thr Gly Ala Lys Gln Glu Glu Thr Glu Ser Ser Lys Arg Phe Ser Ile
72              85              90              95
74 Leu Lys Lys Lys Leu Lys His Leu Phe Glu Pro Asn Trp Pro Ile Glu
75              100             105             110
77 Ile Gly Leu Phe Leu Thr Thr Phe Thr Leu Phe Val Thr Gly Cys Leu
78              115             120             125
80 Thr Gln Lys Trp Tyr Phe Ser Ile Pro Leu Leu Val Leu Met Gln Ile
81              130             135             140
83 Ile Ser Gly Trp Ile Gly His Ser Met Asn His Asn Arg Asn Pro Ile
84 145             150             155             160
86 Leu Arg Lys Phe Ala Leu Val Tyr Ala Pro Leu Cys Gly Gly Phe Ser
87              165             170             175
89 Asn Lys Trp Trp Gly Arg Lys His Asn Gln His His Met Phe Thr Asn
90              180             185             190
92 Asn Ile Leu Lys Asp Glu Asp Ile Gln His Asp Tyr Lys Leu Trp Gln
93              195             200             205
95 Phe Pro Phe Leu Phe Leu Lys Trp Lys Leu Asp Ser Ile Leu Ala Ser
96              210             215             220
98 Tyr Tyr Glu Phe Glu Gly Ile Phe Leu Ala Leu His Trp Val Leu Leu
99 225             230             235             240
101 Phe Asn Gln Asn Phe Tyr Ile Val Ile Leu Ser Glu Leu Ile Ala Gly
102              245             250             255
104 Phe Phe Ser Ala Ser Ile Leu Val Gly Asn His Glu Asn Glu Met Lys
105              260             265             270
107 Phe Glu Arg Arg Ile Thr Leu Pro Phe Phe Glu His Gln Ile Ala Ala
108              275             280             285
110 Ser Arg Asn Tyr Ala Phe His Asp Ile Phe Ser Leu Leu Ile Met Gly
111              290             295             300
113 Gly Met Gln Tyr Gln Thr Glu His His Phe Phe Pro Gln Ile Pro Phe
114 305             310             315             320
116 Tyr Arg Leu Pro Lys Ala Arg Val Ile Ile Ala Glu Glu Leu Lys Lys
117              325             330             335
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120              340             345             350
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127 <211> LENGTH: 2492
128 <212> TYPE: DNA
129 <213> ORGANISM: Tetrahymena thermophila
131 <400> SEQUENCE: 3
132 taaaacgatt ataatatca cacaaattaa accgaaaaag agttaagtg ctaatattaa 60

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002
TIME: 15:52:52

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Output Set: N:\CRF3\03212002\J070666.raw

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133 taatataatt tatctaaatt gaaagatggt tcaattaatt tgaaattatt ttgaagcaaa 120
134 ataattcgat tcgtgtaaga tggaaattga aagaattaag gtttagaaaa gttctttttg 180
135 taaaataata gagttaaagt caataaattt tatattacgt aaatcttaaa gtgtgcaaat 240
136 gttatcatta acaattctaa atgatgcaaa atattttaat tattaaaaat aatgatagtt 300
137 aataaaatca atatttcata ataataataa ggtatctatc tatctatcaa tatttcaata 360
138 aatattaatt aaaagggttat aaaataagta agcaaaactaa atttaaaaaa caagcattat 420
139 gggagttgat aagacttaag aagaaattgt tcttgaaaat aaaccggaac ttctcaacga 480
140 atacaaattt atttacaagg atactgaata tgactgcact gaatatgcta aatcaaataa 540
141 gcatcctggc ggtcttaatt tcctcaattt gtttattgat gagaagtaag atttgactga 600
142 atatttcaga acactccatt ctaagtaggc tttgaaaatt ttaaaatcct tccctaagac 660
143 tggcgcaaaa taagaggaga ctgaatcttc aaagagattc tcaatattaa agaaaaagct 720
144 taagcatgta aatacattca aatgatattt ttattgagca tatttagcat aatttgataa 780
145 ttttcataag catattttta attataaaaa tgaacatatt tttaaattaa tttagttatt 840
146 cgaaccaaac tggcctatcg aaattggttt attcttaact acctttactt tatttgtcac 900
147 tggatgtttg actcaaaagt ggtatttctc tattcccctt cttgtcttaa tgcaaatcat 960
148 cagtggttgg attggtcact ctatgaacca caatcgtaac cctatattaa gaaaattcgc 1020
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150 tcaagtaacc ataattttta atataaatat ataaagattt tttggttttg cgaggaaaaa 1140
151 agtcatattt tgatgcttta atagtacaaa caatatttga ttggtatgat taaattatta 1200
152 aagatcttaa tttagccttt tttaaaaatt tcaaataaat ttgaagataa tattattaaa 1260
153 gtataataaa tgattaagcc aaaatctgta ccaaaaatct gttaaatacaa aatcaacttc 1320
154 acacaaagat tacacatagc attttatttt ttataataaa ataaatgaaa atagtttttt 1380
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156 atacaaataa ttgaaaaaag ctaaattctt tttctattaa aattaattac aaattgtaaa 1500
157 agattaattt taccatttaa ttttaagtacc gcaataagca aatctctatt ttttttaagc 1560
158 aatgacgtca cggataaata ttatcactat attcctcaat aataaatcat ctttaaaata 1620
159 atttaaaact aattaatata attctaataa aagcatcata tgttcacaaa caacattcta 1680
160 aaggacgaag atatctaaca cgattacaaa ttgtggtaat tccccttctt atttttaaag 1740
161 tggaaattag actccatctt agcttcttat tatgaatttg aaggaatctt ccttgccctg 1800
162 cactgggtat tattattcaa ctaaaacttc tatatcgtaa ttctttctga attgattgct 1860
163 ggtttcttca gtgcttctat tcttggtgga aatcatgaaa atgaaatgaa attcgaaaga 1920
164 agaatacatt taccattttt cgaacatcaa atagctgcaa gcagaaacta cgctttccac 1980
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167 aagtggaacc ttaagattca tgaaggacct atttttgaaa aatctcacct ttgaaaataa 2160
168 ataaatttat tttaaatgca tattttatta gtaatactaa caattgtagg aaatgtgtta 2220
169 tggtttggtt acttattact ttttaactct agaaaacagt cttaacattt attcgatttt 2280
170 atttaacatt acttttttaa aaacaatttt gcttactata aatttacata agtatagtaa 2340
171 gaaactaagt tgatgggtgt attttttaat ttttctaatt aatttgtgaa taaacgatga 2400
172 ttttaatttat taatccagca aataggcata attatattac aaataccagc ccgggcccgc 2460
173 gaccacgcgt gccctatagt gagtcgtatt ac 2492
176 <210> SEQ ID NO: 4
177 <211> LENGTH: 10
178 <212> TYPE: PRT
179 <213> ORGANISM: Tetrahymena thermophila
181 <400> SEQUENCE: 4
182 Trp Trp Lys Trp Asn His Asn Ala His His
183 1 5 10
186 <210> SEQ ID NO: 5

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002
TIME: 15:52:52

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Output Set: N:\CRF3\03212002\J070666.raw

187 <211> LENGTH: 13
188 <212> TYPE: PRT
189 <213> ORGANISM: Tetrahymena thermophila
191 <400> SEQUENCE: 5
192 Gly Gly Leu Gln Phe Gln Ile Glu His His Leu Phe Pro
193 1 5 10
196 <210> SEQ ID NO: 6
197 <211> LENGTH: 20
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of artificial sequence:primer
204 <400> SEQUENCE: 6
W--> 205 tggtggaart gga^Nncayaa → must give location of N and explain what residue
208 <210> SEQ ID NO: 7 N represents, see error summary sheet item 9
209 <211> LENGTH: 20
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of artificial sequence:primer
216 <400> SEQUENCE: 7
W--> 217 cgdggraana rrtgrtggttc → Same error 20
220 <210> SEQ ID NO: 8
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222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
228 <400> SEQUENCE: 8
229 gaccacgcgt atcgatgtcg actttttttt tttttttttv 40
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233 <211> LENGTH: 28
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235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
240 <400> SEQUENCE: 9
241 ggaatcacia tcaacatcat atgttcac 28
244 <210> SEQ ID NO: 10
245 <211> LENGTH: 29
246 <212> TYPE: DNA
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253 ctctgctcctt tagaatgttg tttgtgaac 29
256 <210> SEQ ID NO: 11
257 <211> LENGTH: 29
258 <212> TYPE: DNA

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002
 TIME: 15:52:52

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF3\03212002\J070666.raw

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261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
264 <400> SEQUENCE: 11
265 agtaagcaaa ctaaatttaa aaaacaagc 29
268 <210> SEQ ID NO: 12
269 <211> LENGTH: 29
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
276 <400> SEQUENCE: 12
277 agtaagcaaa ctaaatttaa aaaacaagc 29
280 <210> SEQ ID NO: 13
281 <211> LENGTH: 30
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283 <213> ORGANISM: Artificial Sequence
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289 ggtccttcat gaatcttaag gttccacttc 30
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293 <211> LENGTH: 27
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
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298 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
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318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
324 <400> SEQUENCE: 16
325 gcattatgca tgttgataag acttaagaag 30
328 <210> SEQ ID NO: 17
329 <211> LENGTH: 35
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/070,666

DATE: 03/21/2002

TIME: 15:52:53

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\03212002\J070666.raw

L:9 M:259 W: Allowed number of lines exceeded, <130> FILE REFERENCE:
L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:205 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:205 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:217 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:217 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7